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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/562,424

12/27/2005

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126463

3924

25944 7590 03/18/2008

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EXAMINER

RALEIGH, DONALD L

ART UNIT

PAPER NUMBER

2879

MAIL DATE

DELIVERY MODE

03/18/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/562,424	Applicant(s) NAITO ET AL.	
	Examiner DONALD L. RALEIGH	Art Unit 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>12/27/2005, 03/08/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Koike et al. (EP 1 267 318 A1).

Regarding Claim 1 Koike discloses, at least in Figures 1-19, a front panel ([0001](display screen)) for plasma display ([0001],line 1), comprising:

a transparent substrate (the display screen would have to be transparent), a first transparent adhesive layer (31) (Fig.3) provided on the transparent substrate (located at display area 00), an electromagnetic wave shielding layer (10) provided on the first transparent adhesive layer (31), a third transparent adhesive layer (40) provided on the electromagnetic wave shielding layer (10), and a transparent protective layer (60) provided on the third transparent adhesive layer (40), the electromagnetic wave shielding layer (10) comprising a transparent substrate film (11), a metal layer (12) (see Fig. 19) including a mesh part ([0100], lines 1-4) having a plurality of openings that adjoin one another, formed on the transparent substrate film (11), and a smoothing resin layer (20)(Fig.19) made from a transparent synthetic resin [0064], (although (20) in Fig.19 is not shown as part of the EM shielding layer, it is in contact with it and would provide the same smoothing function) filling at least part of the spaces in the openings in the metal layer (12)(if the metal is a mesh, the polymer would fill in some of the spaces in the openings in the metal), the third transparent adhesive layer (40) containing a coloring agent for color tone correction. Paragraph [0034] discloses that a dye may be added to any of the transparent adhesive layers.

Regarding Claims 2, 3 and 5: Koike discloses that the third transparent adhesive layer (40) contains both a near infrared rays absorbing agent and a coloring agent for color tone correction, Paragraph [0031] discloses that it may contain a dye, paragraph [0035] discloses that the dye may include a near infrared absorbing agent (800-1100 nm range).

Regarding Claims 4 and 13: Koike discloses that the smoothing resin layer (20) contains a near infrared rays absorbing agent, and the third transparent adhesive layer (40) contains a coloring agent for color tone correction. Paragraph [0031] discloses that the dye may be in any of the layers and paragraph [0035] discloses that the dye may contain a near infrared absorbing agent.

Regarding Claim 6: Koike discloses that the metal layer (12) further includes a frame part that surrounds the mesh part, and a part of the frame part is covered neither with the smoothing resin layer (20), nor with the third transparent adhesive layer (40), nor with the transparent protective layer (60) and is thus bare. Paragraph [0229] teaches that the transparent conductive layer (D) which is the metal part of (10) should be deposited in frame form out of the central display area (i.e. not covered by (20), (40) or (60) which are in the display area).

Regarding Claim 7 Koike discloses, in Figure 19, an adhesive layer (30) applied to layer (11) and (12) which would bond the mesh layer (12) to the polymer (11).

Regarding Claim 8: Koike discloses, at least in Figure 3, that the transparent protective layer (60) comprises a transparent protective substrate film (63) and an anti-reflection layer (61), (paragraph [0272]) identified these elements) on the transparent protective substrate film (63).

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Regarding Claim 9: Koike discloses that a blackening treatment layer is provided on the transparent protective layer (60) side surface of the metal layer (12). Para. [0264] discloses applying a black paint to the surface of the section containing the metal layer.

Regarding Claim 10: A plasma display comprising: a front panel [0001] for plasma display [0001], and a plasma display element that faces to the front panel (00 in Fig.3) for plasma display, the front panel for plasma display comprising: a transparent substrate (display screen), a first transparent adhesive layer (31) provided on the transparent substrate (display screen), an electromagnetic wave shielding layer (10) provided on the first transparent adhesive layer (31), a third transparent adhesive layer (40) provided on the electromagnetic wave shielding layer (10), and a transparent protective layer (60) provided on the third transparent adhesive layer (40), the electromagnetic wave shielding layer (10) comprising a transparent substrate film (11), a metal layer (12) including a mesh part [0100] having a plurality of openings that adjoin one another, formed on the transparent substrate film (11), and a smoothing resin layer (20) made from a transparent synthetic resin [0064], filling at least part of the spaces in the openings in the metal layer (12), the smoothing resin layer (20) and/or the third transparent adhesive layer (40) containing a near infrared rays absorbing agent and/or a coloring agent for color tone correction (para. [0031] and para. [0035] discloses that any layer can contain a dye with near infrared absorption), the transparent substrate (display screen) of the front panel for plasma display facing to the plasma display element, an image displayed being observed from the transparent protective layer (60) side. (The filter is applied to the device that produces the image, and thus the image would be observed from the (60) side of the filter as shown in Figure 3.)

Regarding Claims 11-14: Koike discloses that the third transparent adhesive layer (40) contains both a near infrared rays absorbing agent and a coloring agent for color tone correction.

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Paragraph [0031] discloses that at least one dye is contained in any of the layers and paragraph [0035] discloses that the dye may contain an infrared absorption material.

Regarding Claim 15: Koike discloses that the metal layer (12) further includes a frame part that surrounds the mesh part, and a part of the frame part is covered neither with the smoothing resin layer (20) nor with the third transparent adhesive layer (40), nor with the transparent protective layer (60) and is thus bare. Paragraph [0229] teaches that the transparent conductive layer (D) which is the metal part of (10) should be deposited in frame form out of the central display area (i.e. not covered by (20), (40) or (60) which are in the display area.

Regarding Claim 16: Koike discloses at least in Figures 15 and 19 that the electromagnetic wave shielding layer (10) comprises a second transparent adhesive layer (30) between the transparent substrate film (63) and the metal layer (12).

Regarding Claim 17: Koike discloses at least in Figures 12-14 that the transparent protective layer (60) comprises a transparent protective substrate film (63) and an anti-reflection layer (61) on the transparent protective substrate film (63).

Regarding Claim 18 Koike discloses a blackening treatment layer is provided on the transparent protective layer (20 (B)) side surface of the metal layer (12). (Paragraph [0264],)

Conclusion

Examiner's note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the

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references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONALD L. RALEIGH whose telephone number is (571)270-3407. The examiner can normally be reached on Monday-Friday 7:30AM to 5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Donald L Raleigh/
Examiner, Art Unit 2879

/Mariceli Santiago/
Primary Examiner, Art Unit 2879